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OIPF

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/901,812

DATE: 07/25/2001

TIME: 14:12:35

Input Set : A:\GENENT.083A.txt

Output Set: N:\CRF3\07252001\I901812.raw

ENTERED

4 <110> APPLICANT: Pennica, Diane
5 Polakis, Paul
6 Szeto, Wayne
8 <120> TITLE OF INVENTION: UPREGULATION OF TUMOR ANTIGENS TO
9 ENHANCE EFFICACY OF IMMUNOTHERAPY
12 <130> FILE REFERENCE: GENENT.083A
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/901,812
C--> 14 <141> CURRENT FILING DATE: 2001-07-10
14 <150> PRIOR APPLICATION NUMBER: 60/228,914
15 <151> PRIOR FILING DATE: 2000-08-29
17 <150> PRIOR APPLICATION NUMBER: 09/759,056
18 <151> PRIOR FILING DATE: 2001-01-11
20 <150> PRIOR APPLICATION NUMBER: 60/175,849
21 <151> PRIOR FILING DATE: 2000-01-13
23 <150> PRIOR APPLICATION NUMBER: 60/197,089
24 <151> PRIOR FILING DATE: 2000-04-14
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28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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32 <212> TYPE: DNA
33 <213> ORGANISM: Homo sapiens
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59 ggaaccacgg ccctggcctt cctggtgctc atgctgtgc tccatggcag gaacctcctg 1440

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62 accaaccggc gagtgtctta tgcagccacc tttcttctct tccccctcaa tgtgtgtgtg 1620
63 ggtgccatgg tggccacctg gcgagtgttc ctctctgccc tctacaaagc catccacctt 1680
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72 gcaggtctc cggatcactg tggttggtg gaggtctgtc tgcactggga gcctcaggag 2220
73 ggtctgtct caccacttg gctatggag agccagcagg ggttctggag aaaaaactg 2280
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79 gagccagata tttttgtagt ttttatgct ttggtatta tgaaagaggt tagtgtgttc 2640
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83 <210> SEQ ID NO: 2

84 <211> LENGTH: 667

85 <212> TYPE: PRT

86 <213> ORGANISM: Homo sapiens

88 <400> SEQUENCE: 2

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91 Asp Tyr Ser Tyr Gly Ser Trp Tyr Ile Asp Glu Pro Gln Gly Gly Glu
92 20 25 30
93 Glu Leu Gln Pro Glu Gly Glu Val Pro Ser Cys His Thr Ser Ile Pro
94 35 40 45
95 Pro Gly Leu Tyr His Ala Cys Leu Ala Ser Leu Ser Ile Leu Val Leu
96 50 55 60
97 Leu Leu Leu Ala Met Leu Val Arg Arg Arg Gln Leu Trp Pro Asp Cys
98 65 70 75 80
99 Val Arg Gly Arg Pro Gly Leu Pro Ser Pro Val Asp Phe Leu Ala Gly
100 85 90 95
101 Asp Arg Pro Arg Ala Val Pro Ala Ala Val Phe Met Val Leu Leu Ser
102 100 105 110
103 Ser Leu Cys Leu Leu Leu Pro Asp Glu Asp Ala Leu Pro Phe Leu Thr
104 115 120 125
105 Leu Ala Ser Ala Pro Ser Gln Asp Gly Lys Thr Glu Ala Pro Arg Gly
106 130 135 140
107 Ala Trp Lys Ile Leu Gly Leu Phe Tyr Tyr Ala Ala Leu Tyr Tyr Pro
108 145 150 155 160
109 Leu Ala Ala Cys Ala Thr Ala Gly His Thr Ala Ala His Leu Leu Gly
110 165 170 175

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111 Ser Thr Leu Ser Trp Ala His Leu Gly Val Gln Val Trp Gln Arg Ala
112      180      185      190
113 Glu Cys Pro Gln Val Pro Lys Ile Tyr Lys Tyr Tyr Ser Leu Leu Ala
114      195      200      205
115 Ser Leu Pro Leu Leu Leu Gly Leu Gly Phe Leu Ser Leu Trp Tyr Pro
116      210      215      220
117 Val Gln Leu Val Arg Ser Phe Ser Arg Arg Thr Gly Ala Gly Ser Lys
118 225      230      235      240
119 Gly Leu Gln Ser Ser Tyr Ser Glu Glu Tyr Leu Arg Asn Leu Leu Cys
120      245      250      255
121 Arg Lys Lys Leu Gly Ser Ser Tyr His Thr Ser Lys His Gly Phe Leu
122      260      265      270
123 Ser Trp Ala Arg Val Cys Leu Arg His Cys Ile Tyr Thr Pro Gln Pro
124      275      280      285
125 Gly Phe His Leu Pro Leu Lys Leu Val Leu Ser Ala Thr Leu Thr Gly
126      290      295      300
127 Thr Ala Ile Tyr Gln Val Ala Leu Leu Leu Leu Val Gly Val Val Pro
128 305      310      315      320
129 Thr Ile Gln Lys Val Arg Ala Gly Val Thr Thr Asp Val Ser Tyr Leu
130      325      330      335
131 Leu Ala Gly Phe Gly Ile Val Leu Ser Glu Asp Lys Gln Glu Val Val
132      340      345      350
133 Glu Leu Val Lys His His Leu Trp Ala Leu Glu Val Cys Tyr Ile Ser
134      355      360      365
135 Ala Leu Val Leu Ser Cys Leu Leu Thr Phe Leu Val Leu Met Arg Ser
136      370      375      380
137 Leu Val Thr His Arg Thr Asn Leu Arg Ala Leu His Arg Gly Ala Ala
138 385      390      395      400
139 Leu Asp Leu Ser Pro Leu His Arg Ser Pro His Pro Ser Arg Gln Ala
140      405      410      415
141 Ile Phe Cys Trp Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys
142      420      425      430
143 Leu Gly Leu Leu Val Gln Gln Ile Phe Phe Leu Gly Thr Thr Ala
144      435      440      445
145 Leu Ala Phe Leu Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu
146      450      455      460
147 Leu Phe Arg Ser Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala
148 465      470      475      480
149 Leu Ala Val Ile Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu
150      485      490      495
151 Thr His Asp Gly His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala
152      500      505      510
153 Ala Thr Phe Leu Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val
154      515      520      525
155 Ala Thr Trp Arg Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu
156      530      535      540
157 Gly Gln Met Asp Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp
158 545      550      555      560
159 Pro Gly Tyr Tyr Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln

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160          565          570          575
161 Ser His Pro Ala Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln
162          580          585          590
163 Ser Leu Leu Pro Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro
164          595          600          605
165 Gly Glu Glu Asp Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met
166          610          615          620
167 Ala Lys Gly Ala Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly
168 625          630          635          640
169 Leu Ala Tyr Thr Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys
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175 <210> SEQ ID NO: 3

176 <211> LENGTH: 676

177 <212> TYPE: DNA

178 <213> ORGANISM: Homo sapiens

180 <220> FEATURE:

181 <221> NAME/KEY: misc_feature

182 <222> LOCATION: (0)...(0)

183 <223> OTHER INFORMATION: n = A, T, C or G

185 <400> SEQUENCE: 3

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188 cgctcactgg tgacacacag gaccaacctt cgagctctgc accgaggagc tgccctggac 180
189 ttgagtcctt tgcacggag tccccatccc tcccgccaag ccatattctg ttggatgagc 240
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202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 4

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Output Set: N:\CRF3\07252001\I901812.raw

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256 <213> ORGANISM: Homo sapiens
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264 35 40 45
265 Pro Gly Leu Tyr His Ala Cys Leu Ala Ser Leu Ser Ile Leu Val Leu

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Input Set : A:\GENENT.083A.txt

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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